



## *Fig.* 3

	Model of User Condition 2	
User: X Time: 14:22	2 Date 10/15/XX	
Latitude	37°55.3′ N	
Longitude	95°24.7′ W	
Altitude	102'	
Heart Rate	57 beats/minute	
Blood Pressure	125 / 80	
Last User Input	Voice Command "Stop Recording"	
Ambient Temperature	67°F	
Ambient Noise	20 dB	
Location	Office	
Speed	2 MPH	+/- 10%
Nearby Objects	Desk	
Nearby People	Physical: None. Audio: "Doug Smith"	
User Activity	Talking on Cell Phone, Walking	Highly Likely
Cognitive Load	77	
Level of Privacy	Company, Executive	
Scope of Audience	Self	
Application X-Factor 1	Normal: Mean-23, Std Dev 3	
User Format Preference	Visual > Auditory	
User Device Preference	Eyeglass Mounted Display	

## Fig. 4

User Characterization Module 205

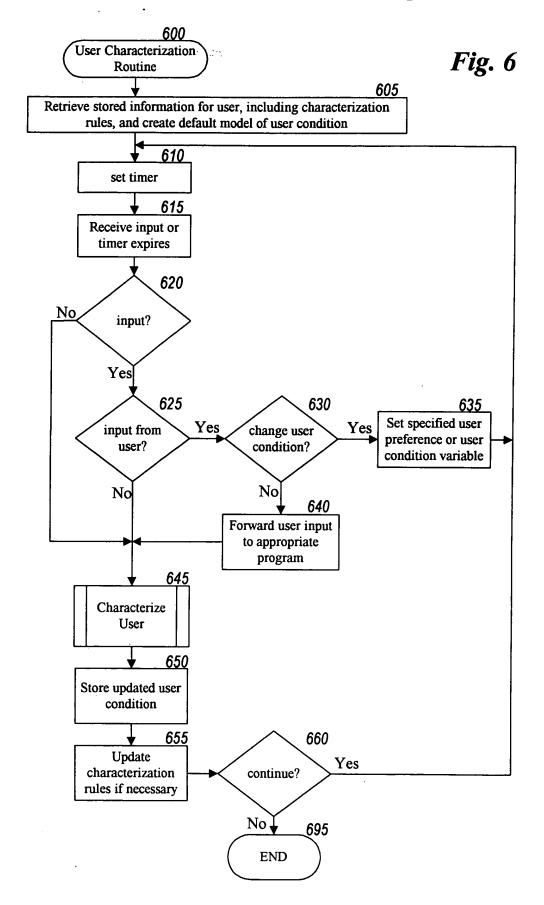
User: X	
田	<latitude> ≈ "37°55.2'N" AND <longitude> ≈ "95°24.7'W" THEN <location> = "Office"</location></longitude></latitude>
H	<pre><infrared.link.to.desktop> = True THEN <nearby objects=""> Includes "Desk"</nearby></infrared.link.to.desktop></pre>
IF	<voice. id="" recognition.=""> &lt;&gt; "X" AND <speakerphone. status=""> = "Disabled"</speakerphone.></voice.>
	THEN <nearby people=""> Includes ValueOf <voice id="" recognition=""></voice></nearby>
H	<pre><desktop.motion.sensor.human.movement> = True AND <user activity=""></user></desktop.motion.sensor.human.movement></pre>
	Includes "Seated" THEN <nearby people.="" physical=""> Includes "Unidentified Person"</nearby>
田	<user activity=""> = "Walking" THEN <cognitive load=""> = 20</cognitive></user>
田	<user activity=""> = "Talking *" THEN <cognitive load=""> = 55</cognitive></user>
田	<user activity=""> Includes "Walking" AND <user activity=""> Includes</user></user>
_	"Talking On Cell Phone" THEN <cognitive load=""> = 77</cognitive>
WHILLE	<0utput. To. User> = True THEN <cognitive load=""> = +10</cognitive>
WHILE	WHILE <user.mood> Includes "Angry" THEN <cognitive load=""> = +20%</cognitive></user.mood>
田	<nearby *="" people.=""> Includes Only [Company Executives] THEN</nearby>
	<level of="" privacy=""> Includes "Executive"</level>
出	<nearby *="" people=""> Includes Only [Company Employees] THEN</nearby>
	<level of="" privacy=""> Includes "Company"</level>
田	<nearby people.="" physical=""> = "None" THEN <scope audience="" of=""> = "Self"</scope></nearby>
IF	<output.intrusive.to.others> = "Likely" THEN <scope audience="" of=""> = "Self"</scope></output.intrusive.to.others>
AppX:II	AppX:IF < Application X-Factor 1.Mean >> 25 THEN
	<application output="" x=""> = "Undesired" WITH Likeliho od "Likely"</application>
田	( <current. time=""> - <time. input="" of.last.="" user.="">) &gt; 5 minutes THEN <interacting. computer="" with.=""></interacting.></time.></current.>
	= False WITH Likelihood "Somewhat Likely"

## 

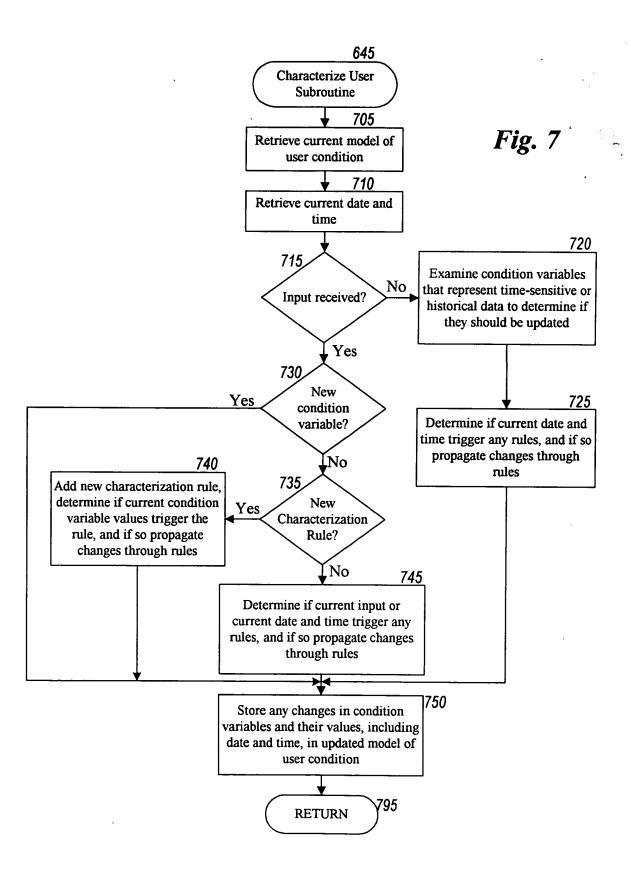
## Fig. 5

Output Device Selector Module 215 Degree of Intrusiveness Very Low-Medium Medium-Very High Medium-Very High Somewhat High High-Very High High-Very High on Others Very Low Very Low Very Low Very Low Very High High Somewhat Low Interruptibility Low-Medium Medium-High Degree of Very Low-Very Low-Very Low Very High Very High Medium-Very High Medium-High High-Low Low-Low-High High Audience Unlimited Self + Few Scope of Self [+3] Self +6 Many Many Self Self Self Self Self Self Sensitive Level of Privacy Business, Sensitive **Business** Business Sensitive Family Friends Highly Close Ŧ F ٩ Ŧ All Somewhat High Cognitive Load Somewhat High Somewhat Low Somewhat High Somewhat High Somewhat High Very Low-Very Low-Very Low-Very Low-Very Low-Very Low-Very Low-Very High Very Low-Very Low-Medium-Very High Medium Medium Medium Low-High Low-Visual, Audio Visual, Audio, Supported Olfactory Tactile Audio Audio Audio Audio Senses Visual Visual Visual Tactile Audio 밆 × Available Currently User: X × × × × × × × × × Handheld Flat Panel Display Speaker 132 Display 134 Display 136 Display 160 Speaker 162 Device 164 Printer 166 Telephone Telephone Car Radio Earpiece Olfactory Pager 502 Eyeglass Mounted Device Tactile Cellular 130 891 504 506











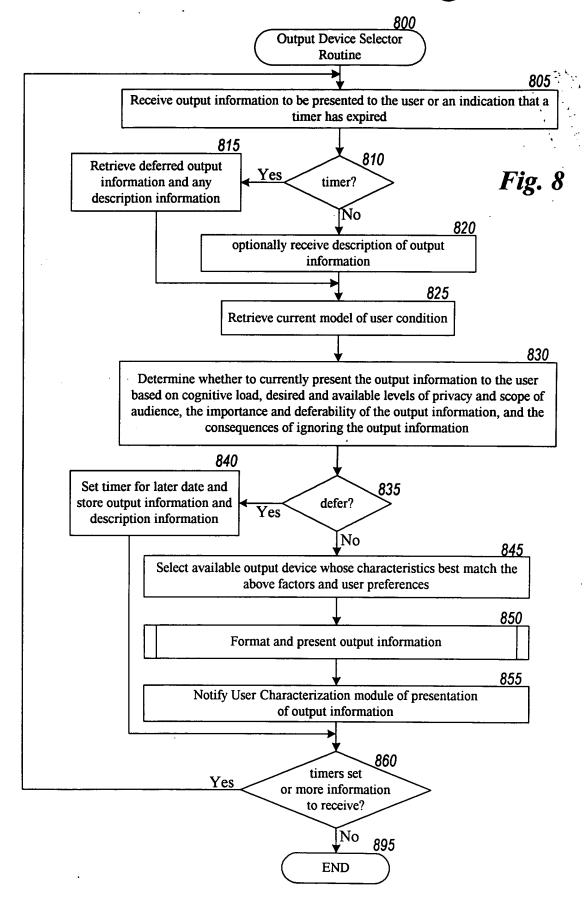


Fig. 9

